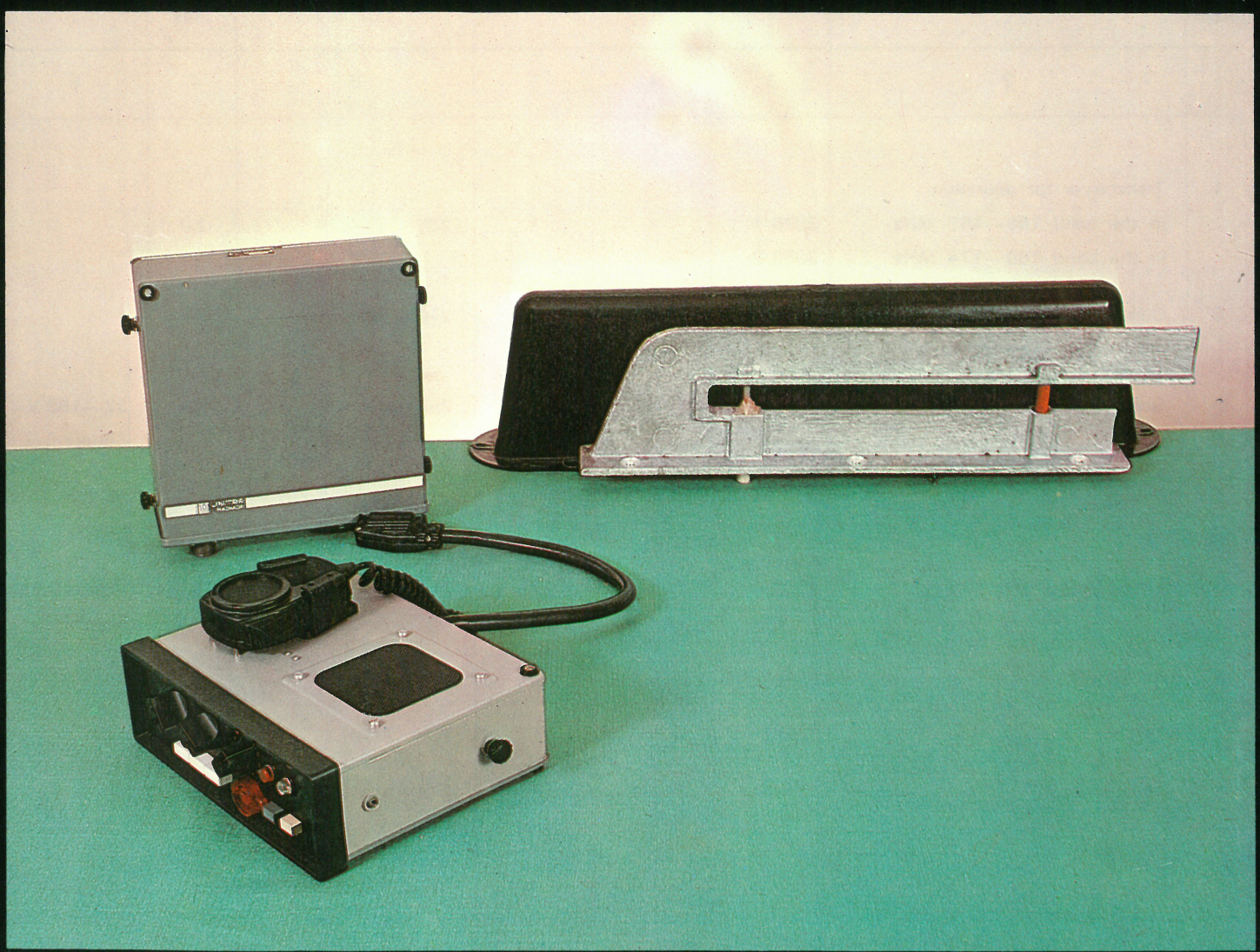
RADMOR ZAKŁADY RADIOWE

Radiotelephones 3006-160, 3206-160 and 3106-160



RADIOTELEPHONES 3006-160, 3206-160 AND 3106-160

The growing requirements in the range of dispatcher communications and safety for railway trains has led to the development of presented here railway VHF-FM communication system.
The system consists of three radiotelephone sets:
— 3006-160 set of rail-vehicles,
— 3206-160 for dispatch stations,
— portable set 3106-160.
Effective control of moving trains by dispatch centres is possible owing to selective call facility installed in radiotelephones 3206 and 3006.
Owing to the fact that the system is fitted with special alarm facilities which stop the train automatically in emergency situations, the system becomes a necessary element which is decisive in the terms of safety for railway trains.*)

The radiotelephone 3106 is equipped with a 3-tone selective calling generator.
The mobile radiotelephone can be fitted with one or two control units.
The Type 3206-160 Radiotelephone fitted with 3281 or 3282. Antenna provides means of communication with subscribers in all directions; fitted with two 3287. Antennas provides means of communication in any two directions; and fitted with one 3287. Antenna provides means of communication in any single direction.
The radiotelephone construction allows easy installation of radiotelephone in both railway vehicles and dispatcher rooms. The circuitry employs modern solid state silicon devices and monolithic thin-layer circuits, throughly.

3006 and 3206 RADIOTELEPHONE SET

Item	Description	Type	3006-160	3206-160	Size (mm)	Weight (kg)	Remarks
1	2	3	4	5	6	7	8
1	Transceiver for operation in the band 148—161 MHz in the band 160—174 MHz	 3036/1 3036/2	 ×	 ×	 256×259× 76	 2.0	
2	Control unit with microphone-speaker	3066/1 MG-916/8	×	×	210×259×115	2.4	
3	General-purpose power unit	3076	×	—	253×259× 76	3.6	32—180 V Supply
4	Battery power unit	3071/3	×	—	92×280× 76	1.8	25.2 Vdc Supply
5	Mains power unit	3371/1	—	×	248×246× 90	5.0	220/110 Vac Supply
6	Antenna	3086	×	—	570× 54×134	1.7	
7	Antenna or	32812/1	—	×	Ø50×1400	2.0	
8	Antenna or	3282/4,5	—	×	Ø50×5230	5.0	
9	Antenna	3287	—	×		5.0	

3106 RADIOTELEPHONE SET

Item	Description	Type	Size (mm)	Weight (kg)
1	Transceiver	315.50/6,7	127×111×40	0.73
2	Battery power unit	315.20	108× 48×40	0.40
3	Control unit	0172/1	110× 60×35	0.30
4	Band-type antenna	3187/2		
	Optional accessories			
5	Head-phone/laryngophone set	920.00/1		
6	Band-type antenna carried over the shoulder	3187/1		
7	Belt-antenna (sewn in)	AFM-825		
9	Battery charging unit	UŁ-0272	185×130×70	1.15

NOTE:
Also the RADMOR 3101-160/9 portable radiotelephone has been designed for operation in railway system communication network.

While ordering, please include the following information: Radiotelephone Type, Operating Frequencies for the Transmitter and Receiver, Supply Voltage (mobile set only), number of control units (mobile set only).

SPECIFICATIONS

Parameters	Units	Type		
		3206	3006	3106
General				
Frequency range	MHz		148—174	
Type of Transmission			F2, F3E	
Operation			simplex, semiduplex	
Number of channels		10		3
Channel separation	kHz		25	
Frequency stability		1.2 kHz	2.2 kHz	10×10^{-6}
Antenna impedance	Ohm		50	
Non-linear distortion	%	5		7
Operating temperature range	°C		−20 ÷ +60	
Remote control			Multiwire cable of 100 m max. length	
Transmitter				
RF power output	W	1 ÷ 10		0.5
Maximum deviation	kHz		5	
Spurious emissions	µW	1		2.5
Receiver				
Sensitivity (SINAD=20 dB)	µV	0.8		0.5
Selectivity	dB	80		75
Spurious response	dB	75		70
Intermodulation rejection	dB	60		55
Output for speaker	W	2		0.15
Power supply				
Voltage:				
— mains		220 Vac/24 Vdc or 110 Vac/24 Vdc		
— battery			32 V to 180 Vdc or 24 Vdc	12.4 Vdc

Manufacturer:

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